



CITY of PERTH

Lord Mayor and Councillors,

**NOTICE IS HEREBY GIVEN** that the next meeting of the **Works and Urban Development Committee** will be held in Committee Room 1, Ninth Floor, Council House, 27 St Georges Terrace, Perth on **Tuesday, 26 July 2016 at 5.30pm.**

Yours faithfully

MARTIN MILEHAM  
CHIEF EXECUTIVE OFFICER

21 July 2016

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**Committee Members:**

**Members:**

Cr Limnios (Presiding Member)  
The Lord Mayor  
Cr McEvoy

**1<sup>st</sup> Deputy:**

Cr Harley

**2<sup>nd</sup> Deputy:**

Cr Chen

Please convey apologies to Governance on 9461 3250  
or email [governance@cityofperth.wa.gov.au](mailto:governance@cityofperth.wa.gov.au)

# EMERGENCY GUIDE

Council House, 27 St Georges Terrace, Perth



CITY of PERTH

The City of Perth values the health and safety of its employees, tenants, contractors and visitors. The guide is designed for all occupants to be aware of the emergency procedures in place to help make an evacuation of the building safe and easy.

## BUILDING ALARMS

Alert Alarm and Evacuation Alarm.

### ALERT ALARM

#### beep beep beep

All Wardens to respond.

Other staff and visitors should remain where they are.

## EVACUATION ALARM/PROCEDURES

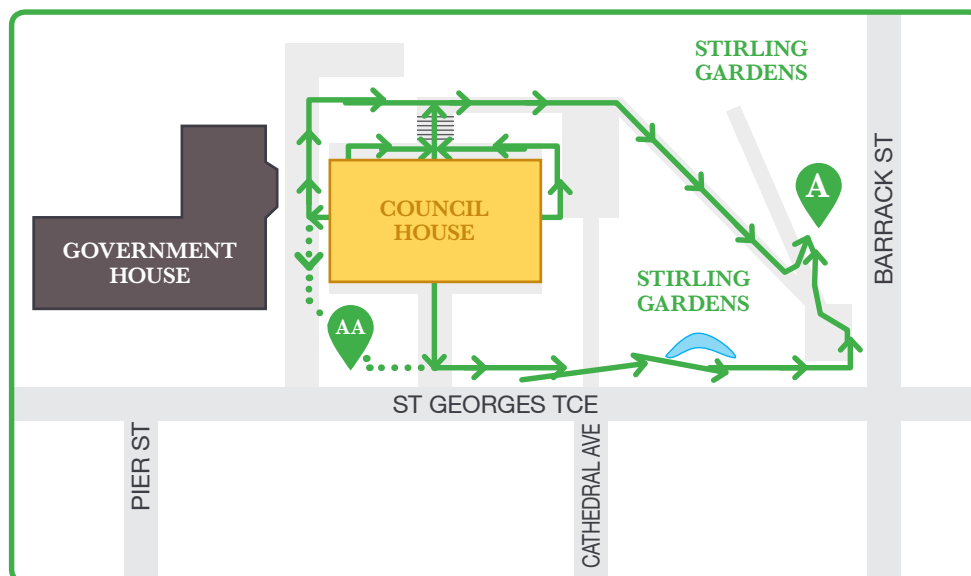
### whoop whoop whoop

On hearing the Evacuation Alarm or on being instructed to evacuate:

1. Move to the floor assembly area as directed by your Warden.
2. People with impaired mobility (those who cannot use the stairs unaided) should report to the Floor Warden who will arrange for their safe evacuation.
3. When instructed to evacuate leave by the emergency exits. **Do not use the lifts.**
4. Remain calm. Move quietly and calmly to the assembly area in **Stirling Gardens** as shown on the map below. Visitors must remain in the company of City of Perth staff members at all times.
5. After hours, evacuate by the nearest emergency exit. **Do not use the lifts.**



### EVACUATION ASSEMBLY AREA



 Assembly Area

 Alternate Assembly Area

# WORKS AND URBAN DEVELOPMENT COMMITTEE

**Established:** 17 May 2005 (Members appointed 22 October 2015)

<b>Members:</b>	<b>1<sup>st</sup> Deputy:</b>	<b>2<sup>nd</sup> Deputy:</b>
Cr Limnios (Presiding Member) The Lord Mayor Cr McEvoy	Cr Harley	Cr Chen

**Quorum:** Two

**Expiry:** October 2017

**TERMS OF REFERENCE:** OCM 24/11/15

To oversee and make recommendations to the Council on matters related to:

1. works required to construct, upgrade and maintain streets, footpaths, thoroughfares and other public places, including streetscape upgrades, landscaping initiatives and directional signage and graffiti;
2. design, construction and upgrading of parks, reserves, recreational and civic amenities and facilities and Council owned buildings, excluding Council House, the Perth Town Hall, City of Perth Public Lending Library and the Perth Concert Hall;
3. oversight of the implementation of the Lighting Strategy;
4. waste management.

**This meeting is not open to members of the public**

**WORKS AND URBAN DEVELOPMENT  
COMMITTEE  
26 JULY 2016**

**ORDER OF BUSINESS**

- 1. Declaration of Opening**
- 2. Apologies and Members on Leave of Absence**

Cr Limnios (Leave of Absence)
- 3. Confirmation of Minutes – 24 May 2016**
- 4. Correspondence**
- 5. Disclosure of Members' Interests**
- 6. Reports**
- 7. Motions of which Previous Notice has been Given**
- 8. General Business**
  - 8.1. Responses to General Business from a Previous Meeting**

Nil
  - 8.2. New General Business**
- 9. Items for Consideration at a Future Meeting**

Outstanding Reports:

  - “PTA Proposed construction of Fitzgerald Street Bus Lanes (City of Perth Section)” (Deferred 12/04/16, Updated 24/05/16).
- 10. Closure**

# INDEX OF REPORTS

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# ITEM NO: 1

## ADOPTION OF NEW COUNCIL POLICY 20.7 – LIGHTING

**RECOMMENDATION:** (APPROVAL)

***That Council adopts Council Policy 20.7 – Lighting as detailed in Schedule 1.***

### BACKGROUND:

FILE REFERENCE: P1032377  
REPORTING UNIT: Co-ordination & Design  
RESPONSIBLE DIRECTORATE: Planning and Development  
DATE: 19 July 2016  
MAP / SCHEDULE: Schedule 1 – Proposed Council Policy 20.7 – Lighting  
Schedule 2 – Current Council Policy 20.7 – Street Lighting

At its Council meeting on **9 December 2014**, the City of Perth adopted the Lighting Strategy with the following recommendations;

*“That the Council:*

- 1. adopts the City of Perth Lighting Strategy, attached as Schedule 31, noting that the aim of the strategy is to provide a framework for future decision-making associated with improving the lighting of the city;*
- 2. notes a general high level of support from stakeholders, as detailed in Schedule 33;*
- 3. notes that the overall aim, objectives and principles within the City of Perth Lighting Strategy are consistent with the international LUCI charter, of which the City of the Perth was the first capital city in Australia to have become a member;*
- 4. endorses the Action Plan, attached as Schedule 32, noting that the Plan is consistent with the Council’s Capital Works Program and budgets and will be developed and reviewed over time.”*

With the completion of the City of Perth Lighting Strategy and the Lighting Master Plan and Good Lighting Practice Guide currently under development, it is timely to bring the policy up to date. Council Policy 20.7 – Street Lighting was created in May 1992 and was last reviewed in April 1998.

**LEGISLATION / STRATEGIC PLAN / POLICY:**

**Integrated Planning  
and Reporting  
Framework  
Implications**

**Strategic Community Plan**  
Council Four Year Priorities: Perth At Night  
S13      Development of a healthy night time economy

**Policy**

Policy No and Name:    20.7 – Street Lighting Policy

**DETAILS:**

To ensure a comprehensive and co-ordinated approach to lighting, Policy 20.7 – Street Lighting has been reviewed to cover all lighting aspects across the city. The policy title has been adjusted to Council Policy 20.7 – Lighting to reflect this.

Council Policy 20.7 – Lighting supports the key objectives of providing a safe and inviting city, a vibrant city at night and it supports the development of lighting in a sustainable way.

These guidelines are further expanded in the City of Perth Lighting Strategy

**FINANCIAL IMPLICATIONS:**

There are no direct financial implications resulting from this report.

**COMMENTS:**

The revised Council Policy 20.7 – Lighting will assist in the development of lighting design and priorities across the city and its content will support and reinforce other related Council policies and strategies.

## Lighting

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### POLICY OBJECTIVE

The City of Perth places a high value on the provision of a safe and comfortable night time environment. Lighting plays a key role in achieving this outcome and in the development of an engaging and vibrant after hours experience.

The City encourages continued improvement in the quality, consistency and energy efficiency of lighting whilst delivering adaptable street lighting infrastructure that is compatible with intelligent non-lighting technologies to further deliver social, economic and environmental outcomes.

The objectives of this policy is to provide a comprehensive and integrated lighting approach across the city to support:

- A safe and comfortable city at night.
- A vibrant night time economy
- A sustainable approach to energy consumption.
- The integration of valued added smart technologies.

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### POLICY STATEMENT

The City of Perth will work to:

1. Provide appropriate lighting for city streets and public spaces to improve comfort and encourage visitors and residents to remain in the city at night.
2. Improve the legibility of city streets and spaces by using lighting to define the structure of the city and its unique elements.
3. Adopt energy efficient and sustainable lighting standards and practices to reduce energy consumption.
4. Provide due consideration to the life cycle of lighting including the environmental impacts of manufacturing, procurement, use and disposal.
5. Develop an intelligent street lighting network capable of hosting non-lighting functions such as surveillance, environmental monitoring, traffic monitoring and electronic signage.
6. Avoid inappropriate lighting that contributes to light pollution and adversely affects the public, building occupants, and the natural environment.
7. Support cost effective and reliable lighting through proactive maintenance and ongoing monitoring of lighting assets





**CP [##] Lighting**

8. Engage with private developers and other development agencies to provide a consistent approach to lighting across the city.
9. Enhance the unique nightscape image of the city by promoting the illumination of the exterior of buildings.
10. Encourage innovative lighting for special events illumination/festival lighting.

**ROLES AND RESPONSIBILITY**

ROLE	RESPONSIBILITY
Design	Co-ordination and Design and Construction
Construction	Construction
Maintenance	Streetscape Presentation and Maintenance
Asset Management	Streetscape Presentation and Maintenance

**RELEVANT DOCUMENTS**

- City of Perth Lighting Strategy
- Design and Construction Notes
- City of Perth Lighting Master Plan
- City of Perth Good Lighting Practice Guide
- City Planning Scheme
- City of Perth Environment Strategy
- City of Perth Towards an Energy Resilient City Strategic Directions Paper

Document Control Box						
<b>Document Responsibilities:</b>						
<b>Custodian:</b>	Manager	<b>Custodian Unit:</b>	Co-ordination and Design			
<b>Decision Maker:</b>	Council					
<b>Compliance Requirements:</b>						
<b>Legislation:</b>						
<b>Industry:</b>						
<b>Organisational:</b>						
<b>Document Management:</b>						
<b>Risk Rating:</b>		<b>Review Frequency:</b>		<b>Next Due:</b>		<b>TRIM Ref:</b> [AP####]
<b>Version #</b>	<b>Decision Reference:</b>	<b>Synopsis:</b>				
1.	ELG					
2.	ELG					
3.						

## SCHEDULE 2

### City of Perth Policy Manual

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#### **POLICY NO: 20.7**

### **STREET LIGHTING**

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#### **ORIGIN/AUTHORITY**

Council meeting - 18 May 1992 (634/92)  
(Previously Policy No. W39, BU16, ST8)

#### **FILE NO.**

P1007147

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#### **OBJECTIVES**

To assess street lighting requests and designs, in relation to the functional road hierarchy, throughout the City of Perth.

#### **POLICY STATEMENT**

On account of the length of the Policy Statement on this matter, it is not appropriate to reproduce it in this Manual. However, a copy of the Policy is held by the Construction and Maintenance Directorate from which copies may be obtained or perused.

#### **Amendments/Review:**

Council meeting - 28 April 1998 (353/98)  
Council meeting – 30 April 2015 (161/15)

## ITEM NO: 2

### TENDER 088-15/16 - TRAFALGAR FOOTBRIDGE FEATURE LIGHTING

**RECOMMENDATION:** (APPROVAL)

***That Council:***

- 1. accepts the most suitable tender being that submitted by Stiles Electrical & Communications for the Trafalgar Footbridge feature lighting (Tender 088-15/16) at a lump sum cost of \$384,421.88 (excluding GST);***
- 2. in accordance with Regulation 20 (1) of the Local Government (Functions & General) Regulations authorises the revised scope of work and minor variation subject to achieving the proposed savings of \$70,659.07 (excluding GST);***
- 3. accepts the two year inspection and maintenance at a cost of \$6,940 per annum for quarterly inspections, payable quarterly in arrears;***
- 4. accepts the rates for minor repairs and maintenance outside of warranty issues in accordance with Schedule 6.***

#### **BACKGROUND:**

FILE REFERENCE:	P1032702
REPORTING UNIT:	Street Presentation & Maintenance
RESPONSIBLE DIRECTORATE:	Construction & Maintenance
DATE:	21 June 2016
MAP / SCHEDULE:	Confidential Schedule 3 – Tender Evaluation Matrix Confidential Schedule 4 – Revised Scope of Tender Confidential Schedule 5 – Lighting Concept and test photographs (Confidential Schedules distributed to Elected Members under separate cover) Schedule 6 – Price Comparison & Hourly Rates for repairs/maintenance

Tenders were called for the replacement of feature lighting on Trafalgar Footbridge on Wednesday, 23 March 2016.

**LEGISLATION / STRATEGIC PLAN / POLICY:**

**Legislation**                      Section 3.57 of the *Local Government Act 1995*  
Part 4 of the *Local Government (Functions & General)*  
*Regulations 1996*

**Strategic Community Plan**  
Council Four Year Priorities: Perth at Night  
S13 Development of a healthy night time economy

**Policy**

Policy No and Name:      9.7 - Purchasing

**DETAILS:**

At the close of tenders on Tuesday, 19 April 2016, five tender submissions were received as follows:

<b>Tenderer</b>	<b>Lump Sum Cost (excluding GST)</b>
Hender Lee Electrical	\$575,655.00
Auzpower	
Option 1	\$295,000.00
Option 2	\$580,000.00
Stiles Electrical & Communication	\$455,080.95
High Speed Electrics	\$306,480.00
RNM Solutions	\$460,395.00

The basis of the tender was to supply an initial design concept and pricing that would achieve the City's objectives to:

1. Install a permanent programmable lighting system with colour effects to the footbridge
2. Mitigate vandalism and outages due to "bird strikes"
3. Be energy efficient
4. Be easily programmable (locally and remotely for identified events)
5. Integrate via the existing Pharos control system ( utilising as far as possible all existing electrical cable and equipment)
6. Detail any proposed alternative to 4 above.
7. Have all components readily available for future proofing
8. Have short lead time for supply of equipment (availability Australia wide)
9. Better enhancement of the structure and key visual elements of Trafalgar Footbridge

All of the concept designs submitted by the tenderers proposed to light the footbridge in a similar manner to the previous installation, highlighting the horizontal of the bridge structure, the verticals of the large towers and the angle stays.

Tenders were assessed initially against the Qualitative Selection Criteria of:

#### Appreciation of Project Importance & Preliminary Design

Stiles Electrical & Communication provided a good understanding of the project importance and this was reflected in the preliminary design. Hender Lee Electrical provided a reasonable understanding of the project and also reflected this in its preliminary design.

The submissions from Auzpower, RNM Solutions and High Speed Electrics demonstrated a lesser understanding of the project objectives and the preliminary designs were considered to be basic.

#### Program of Work

Stiles Electrical & Communications provided a program of 19 weeks from start to finish. Hender Lee Electrical had a program of installation of 15 weeks but this was following the supply of equipment which was up to 3 months prior to installation. Auzpower, RNM Solutions and High Speed provided limited information on the program of work.

#### Experience with Installations on structures at height

Stiles Electrical & Communications and Hender Lee Electrical both provided relevant experience with working on structures at height. Auzpower, RNM Solutions and High Speed provided limited information.

#### Qualifications & Experience of Project Personnel

Stiles Electrical & Communications and Hender Lee Electrical provided details to evidence the qualifications and experience of personnel to be involved in the project. Auzpower, RNM Solutions and High Speed provided limited details in their submissions.

#### Design Presentation

The tender submissions met the objectives to varying degrees and all of the tenderers were invited to provide a presentation on their proposed solution for the lighting of the Footbridge and to confirm that their concept achieved the City's objectives.

At the completion of the presentations it was determined that based on each companies understanding of the objectives, their proposed solution and fittings, combined with their ability to deliver the project the tenderers were ranked in the following order:

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<b>Ranking</b>	<b>Tenderer</b>
1.	Stiles Electrical & Communication
2.	Hender Lee Electrical
3.	Auzpower
4.	High Speed Electrics
5.	RNM Solutions

Stiles Electrical & Communications proposed a combination of seamless LED strip lighting and spot lights to highlight the footbridge. The proposal consists of:

- Seamless LED strip mounted in an anodised aluminium extrusion horizontally along the I-Beam and on one side of each diagonal stay; and
- Stylish and compact LED narrow beam floodlights (RGB colour mixing) to bring out the size of the towers, mounted at mid-level and LED wide beam floodlights at the inside face of each tower to illuminate the inner area of the structure above the pedestrian lights.

Hender Lee Electrical proposed to illuminate the footbridge in a similar manner to Stiles Electrical & Communications but proposed different fittings that consist of:

- End to end (1500mm) LED wide beam RGB colour mixing linear wall luminaires horizontally on the I-Beam;
- Diagonal stays with LED linear spread floodlights; and
- Towers illuminated with narrow beam LED luminaires.

Auzpower (Option 1) and High Speed Electrics proposed similar designs and products that consisted of:

- End to end LED RGB linear luminaires horizontally focussed on the grey sunscreen;
- Diagonal stays with LED floodlights; and
- Towers illuminated with LED floodlighting.

Auzpower (Option 2) proposed LED panels fitted on the horizontal that would allow video streaming however this was considered to be outside the objectives of the project.

RNM Solutions also proposed a design and products that consisted of:

- End to end LED RGD linear luminaires horizontally focussed on the grey sunscreen;
- Diagonal stays with LED floodlights; and
- Towers illuminated with LED floodlighting.

Following the presentations from the tenderers, it became evident to the Officers that there was an opportunity to reconsider the overall scope while maintaining the objectives of the project.

Stiles Electrical & Communication and Hender Lee Electrical were requested to reconsider the scope, provide options and advise on the suitability of those options as well as any cost implications (refer to Confidential Schedule 4).

The scope refinement and cost implications provided by Stiles Electrical & Communications continued to meet the objectives of the project and a night demonstration of the proposed fittings was carried out. The lighting concept proposed and photographs depicting the effect on parts of the footbridge are attached in Confidential Schedule 5.

**FINANCIAL IMPLICATIONS:**

ACCOUNT NO:	CW 1971
BUDGET ITEM:	TBA
BUDGET PAGE NUMBER:	TBA
BUDGETED AMOUNT:	\$ 350,000
AMOUNT SPENT TO DATE:	\$ 932.18
PROPOSED COST:	\$384,421.88
BALANCE:	(\$ 35,354.06)
ANNUAL MAINTENANCE:	\$ 6,940.00

All figures quoted in this report are exclusive of GST.

**COMMENTS:**

All tenderers were provided the opportunity to present their preliminary design confirming the City's objectives and outcomes have been understood. It is considered that Stiles Electrical & Communications provided the most comprehensive understanding of the project objectives and demonstrated their ability to install and maintain the installation in accordance with the City's requirements.

CONFIDENTIAL SCHEDULE 3  
ITEM 2 – TENDER 088-15/16 TRAFALGAR FOOTBRIDGE  
FEATURE LIGHTING

FOR THE WORKS AND URBAN DEVELOPMENT  
COMMITTEE MEETING

26 JULY 2016

DISTRIBUTED TO ELECTED MEMBERS UNDER  
SEPARATE COVER



CONFIDENTIAL SCHEDULE 4  
ITEM 2 – TENDER 088-15/16 TRAFALGAR FOOTBRIDGE  
FEATURE LIGHTING

FOR THE WORKS AND URBAN DEVELOPMENT  
COMMITTEE MEETING

26 JULY 2016

DISTRIBUTED TO ELECTED MEMBERS UNDER  
SEPARATE COVER

CONFIDENTIAL SCHEDULE 5  
ITEM 2 – TENDER 088-15/16 TRAFALGAR FOOTBRIDGE  
FEATURE LIGHTING

FOR THE WORKS AND URBAN DEVELOPMENT  
COMMITTEE MEETING

26 JULY 2016

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Tender 088-15/16  
Trafalgar Footbridge Feature Lighting

Tenderer:	Hender Lee	Auzpower (1)	Auzpower (2)	Stiles	High Speed	RNM Solutions
<b>Lump Sum</b>	\$556,321.00	\$295,000.00	\$580,000.00	\$455,080.95	\$300,960.00	\$460,395.00
Maintenance Year 1	\$8,347.00	\$3,600.00	\$3,600.00	\$6,940.00	\$2,760.00	\$16,862.00
Maintenance Year 2	\$10,987.00	\$3,600.00	\$3,600.00	\$6,940.00	\$2,760.00	\$16,862.00
<b>Rates:</b>						
Electrician	\$97.54	\$90.00	\$90.00	\$95.00	\$90.00	
Rope Access Worker	\$127.20					
Programmer		\$90.00	\$90.00	\$135.00		
Labourer				\$80.00		
Apprentice				\$70.00	\$70.00	
Materials		Cost + 30%	Cost + 30%			
New program/scene						\$175.00
Modify existing scene/times						\$175.00
Additional A/H night tests (ea)						\$1,300.00